INDEX FOR VOLUME 16

Aerial photography, for land-use and cover mapping, 227–320
Age determination
  coot, American, 191
  quail, bobwhite, 109
Aldous, Shaler E. Deer browse clipping study in the Lake States region, 401–409
Aldrich, John W. The source of migrant mourning doves in southern Florida, 447–456
Aldrin, spray, effects on birds, 326, 492
Allen, A. A. Obituary of J. Southgate Hoyt, 214
Allen, Durward L. Book review, 512–514
Antelope, food habits, 387
Arthur, George C., see Shanks, Charles E., 138
Ashbrook, Frank G. Obituary of Herbert L. Dozier, 379–380
Asparagus, as pheasant food, 50
Atkeson, Thomas Z., and Lawrence S. Givens. Upland farming as a method of supplementing the natural waterfowl food supply in the southeast, 442–446
Atkeson, Thomas Z., and David C. Hulse. Crippling as a factor in gray squirrel hunting, 230–232
  also, see Givens, Lawrence S., 107

Bailey, R. Wayne, see Uhlig, Hans G., 24
Baldini, James T., R. E. Roberts, and C. M. Kirkpatrick. Studies of the reproductive cycle of the bobwhite quail, 91–93
  also, see Kirkpatrick, Charles M., 54
Ball, Robert C. Farm pond management in Michigan, 266–269
Barber, Harold L. Mobility of the white bass, *Lepibema chrysops* (Rafinesque), 115
Barnickol, Paul G., and Robert S. Campbell. Summary of selected pond studies in Missouri, 270–274
Baskett, Thomas S., see Murphy, Dean A., 498
Beaver, ponds, 69
  rabies in, 226
Beck, John R. A suggested food rank index, 398–399
Benson, D. A. Treatment of sick moose with cobaltous chloride, 110–111
Bennett, George W. Pond management in Illinois, 249–253
Big game ranges, infiltration on, 224
Birds, effects of chlordane and aldrin on, 326, 492
Bishop, Louis B. (Obituary), 94
Boldt, Wilbur, and George O. Hendrickson. Mourning dove production in North Dakota shelterbelts, 1950, 187–191
Bonnot, Paul (Obituary), 214
Brakhage, George K., and Frank W. Sampson. Rabies in beaver, 226
Brown, C. J. D., and Nels A. Thoreson. Ranch fish ponds in Montana, 275–278
Burcalow, Donald W., see Gunvalson, V. E., 121
  also, see Stenlund, Milton H., 58
Bumblefoot, in pheasants, 399

Campbell, Robert S., see Barnickol, Paul G., 270
Carlander, Kenneth D. Farm fish pond research in Iowa, 258–261
Cheatum, E. L. Book review, 95
Chlordane bait, effects on birds, 326
Clark, Minor. Kentucky's farm fish pond program, 262–266
Clemens, Howard P. Cove selection and use of gill nets in fish population surveys in large impoundments, 393–396
Cobaltous chloride, treatment of moose with, 110
Cole, La Mont C. Book review, 98
Compton, Lawrence V. Farm and ranch ponds, 238–242
Conaway, Clinton. The age at sexual maturity in male elk (*Cervus canadensis*), 313–315
Control
  mole, prairie, 419
  weasel, 516
Coot, American, sex and age determination, 191
Corrections, 94, 106
Cover mapping, aerial photography in, 227, 320
Cowan, I. McT., and James Hatter. A trap and technique for the capture of diving waterfowl, 438–441
  Book reviews, 96, 102
Croker, Richard S. Obituary of Paul Bonnot, 214–215

Dale, Fred H. Sex ratios in pheasant research and management, 156–163
  Book review, 514

INDEX FOR VOLUME 16

Aerial photography, for land-use and cover mapping, 227–320
Age determination
  coot, American, 191
  quail, bobwhite, 109
Aldous, Shaler E. Deer browse clipping study in the Lake States region, 401–409
Aldrich, John W. The source of migrant mourning doves in southern Florida, 447–456
Aldrin, spray, effects on birds, 326, 492
Allen, A. A. Obituary of J. Southgate Hoyt, 214
Allen, Durward L. Book review, 512–514
Antelope, food habits, 387
Arthur, George C., see Shanks, Charles E., 138
Ashbrook, Frank G. Obituary of Herbert L. Dozier, 379–380
Asparagus, as pheasant food, 50
Atkeson, Thomas Z., and Lawrence S. Givens. Upland farming as a method of supplementing the natural waterfowl food supply in the southeast, 442–446
Atkeson, Thomas Z., and David C. Hulse. Crippling as a factor in gray squirrel hunting, 230–232
  also, see Givens, Lawrence S., 107

Bailey, R. Wayne, see Uhlig, Hans G., 24
Baldini, James T., R. E. Roberts, and C. M. Kirkpatrick. Studies of the reproductive cycle of the bobwhite quail, 91–93
  also, see Kirkpatrick, Charles M., 54
Ball, Robert C. Farm pond management in Michigan, 266–269
Barber, Harold L. Mobility of the white bass, *Lepibema chrysops* (Rafinesque), 115
Barnickol, Paul G., and Robert S. Campbell. Summary of selected pond studies in Missouri, 270–274
Baskett, Thomas S., see Murphy, Dean A., 498
Beaver, ponds, 69
  rabies in, 226
Beck, John R. A suggested food rank index, 398–399
Benson, D. A. Treatment of sick moose with cobaltous chloride, 110–111
Bennett, George W. Pond management in Illinois, 249–253
Big game ranges, infiltration on, 224
Birds, effects of chlordane and aldrin on, 326, 492
Bishop, Louis B. (Obituary), 94
Boldt, Wilbur, and George O. Hendrickson. Mourning dove production in North Dakota shelterbelts, 1950, 187–191
Bonnot, Paul (Obituary), 214
Brakhage, George K., and Frank W. Sampson. Rabies in beaver, 226
Brown, C. J. D., and Nels A. Thoreson. Ranch fish ponds in Montana, 275–278
Burcalow, Donald W., see Gunvalson, V. E., 121
  also, see Stenlund, Milton H., 58
Bumblefoot, in pheasants, 399

Campbell, Robert S., see Barnickol, Paul G., 270
Carlander, Kenneth D. Farm fish pond research in Iowa, 258–261
Cheatum, E. L. Book review, 95
Chlordane bait, effects on birds, 326
Clark, Minor. Kentucky's farm fish pond program, 262–266
Clemens, Howard P. Cove selection and use of gill nets in fish population surveys in large impoundments, 393–396
Cobaltous chloride, treatment of moose with, 110
Cole, La Mont C. Book review, 98
Compton, Lawrence V. Farm and ranch ponds, 238–242
Conaway, Clinton. The age at sexual maturity in male elk (*Cervus canadensis*), 313–315
Control
  mole, prairie, 419
  weasel, 516
Coot, American, sex and age determination, 191
Corrections, 94, 106
Cover mapping, aerial photography in, 227, 320
Cowan, I. McT., and James Hatter. A trap and technique for the capture of diving waterfowl, 438–441
  Book reviews, 96, 102
Croker, Richard S. Obituary of Paul Bonnot, 214–215

Dale, Fred H. Sex ratios in pheasant research and management, 156–163
  Book review, 514

Deer
browse clipping study, 401
death by bearded grains, 113
mule
food habits in Utah, 148
forages, 309
mortality, 289
population fluctuations, 121
repellents, effect on foliage, 390
white-tailed, bag checks, 58
de Vos, Antoon, and Stanley E. Guenther. Preliminary live-trapping studies of marten, 207–214
Book review, 511–512
Doves
mourning, autopsying, 108
production, 187
source in southern Florida, 447
Trichomoniasis in, 164
trapping and marking of, 87
Dozier, Herbert L. (Obituary), 379
Dusi, Julian L. The food habits of several populations of cottontail rabbits in Ohio, 180–186

Eagle, golden, food habits of, 457
Edminster, Frank C. Book review, 215–216
Elder, William H. Failure of placental scars to reveal breeding history in mink, 110
Elk, age at sexual maturity, 313
Emlen, John T., Jr., see Young, Howard, 169
Eng, Robert L. A two-summer study of the effects on bird populations of chlordane bait and aldrin spray as used for grasshopper control, 326–337
Erickson, Arnold B. A case of bumblefoot in the ring-necked pheasant, 399–400
also, see Gunvalson, V. E., 121
Evenden, Fred G., Jr. Waterfowl sex ratios observed in the western United States, 391–393

Farm ponds, management problems in several states and Canada (12 papers), 233–288
muskrats in, 138

Fish
bass, white, 115
marine, mortality, 63
population surveys, 393
weight changes after death, 131
whitefish, 39

Fox
as factor in weasel control, 516
gray, population, 198
Food habits
antelope, 387
deer, mule, 148
eagle, golden, 457
food rank index, 398
porpoise, 396
rabbits, cottontail, 180
seal, fur, 396
sea-lion, 396
waterfowl, migratory, 228
Fur productivity, 79

Gashwiler, Jay S., see Robinette, W. L., 289
Geese, Canada, techniques for increasing nesting, 425
Gilbert, Neil. Letter to the Editor, 232
Givens, Lawrence S., and Thomas Z. Atkeson. Use of Italian rye grass as a means of attracting waterfowl, 107–108
also, see Atkeson, Thomas Z., 442
Glass, Bryan P. Factors affecting the survival of the plains muskrat, *Ondatra zibethica cinnamomina*, in Oklahoma, 484–491
Goose, Hawaiian, 1
Graham, Edward H. Book review, 97
Grizzell, Roy A., Jr. Selectivity of mirror traps, 114–115
Guenther, Stanley E., see de Vos, Antoon, 207
Gullion, Gordon. Sex and age determination in the American coot, 191–197
Gunshot, effect on bobwhites, 54
Gunter, G. The import of catastrophic mortalities for marine fisheries along the Texas coast, 63–69
Gunvalson, V. E., A. B. Erickson, and D. W. Burcalow. Hunting season statistics as an index to range conditions and deer population fluctuations in Minnesota, 121–131

Hamilton, W. J., Jr. Book review, 382–383
Hanson, William R. Effects of some herbicides and insecticides on biota of North Dakota marshes, 299–308
Harris, Stanley W. A throw net for capturing female waterfowl on the nest, 515
Hatter, James, see Cowan, I. Mc.T., 438
Haugen, Arnold O. Trichomoniasis in Alabama mourning doves, 164–169
Hendrickson, George O., see Boldt, Wilbur, 187

Henning, Willard L. Studies in control of the prairie mole, *Scalopus aquaticus machrinus* (Rafinesque), 419–424
Herbicides, effect on biota of marshes, 299
Hewitt, O. H. Book reviews, 216–217
Hickey, Joseph J. Monthly distributions of mallard hunting mortality, 32–38
Book review, 511
Hjersman, Henry A., see Howard, Walter E., 390
Honess, Ralph F., and Kenneth Winter. A cultural media kit for field use, 225
also, see Winter, Kenneth B., 111, 113
Howard, Walter E., and Henry A. Hjersman. Deer repellent sprays not harmful to foliage on two-year-old trees, 390–391
Hoyt, J. Southgate (Obituary), 214
Hunting statistics, 121

Insecticides, effect on biota of marshes, 299

Julander, Odell, see Robinette, W. Leslie, 289

Kalmbach, E. R. Book review, 381–382
Kenyon, Karl W., see Wilke, Ford, 396
Kirkpatrick, Charles M., Donald E. Stullken, and James T. Baldini. Effect of simulated gunshot injuries on reproduction of game farm bobwhites, 54–58
also, see Baldini, James T., 91
Kossack, C. W. A method for autopsying a mourning dove kill, 108
Kozicky, Edward L. Variations in two spring indices of male ring-necked pheasant populations, 429–437
Kozicky, Edward L., and Henry G. Weston, Jr. A marking technique for ring-necked pheasants, 223
Krumholz, Louis A. Management of Indiana ponds for fishing, 254–257

Larimore, R. Weldon. Weight changes in fish after death, 131–138
Latham, Roger M. The fox as a factor in the control of weasel populations, 516–517
Law enforcement, technique for aiding, 111
Lawrence, William H. Evidence of the age of beaver ponds, 69–79
Lay, Daniel W. Book review, 102
Leedy, D. L. Obituary of B. Bishop, 94
Levi, Herbert W. Book review, 220–221
Linduska, J. P. Book review, 100
Llewellyn, Leonard M., see Uhler, Francis M., 79

Mallard, hunting mortality of, 32
Marshes, effect of insecticides on biota of, 299
Marten, live-trapping, 207
Mason, Ellis. Food habits and measurements of Hart Mountain antelope, 387–389
Mast index, 338
McHugh, J. L. Fur seals preying on black-footed albatross, 226
Meehean, O. Lloyd. Problems of farm fish pond management, 233–238
Mendall, Howard L. Book review, 220
Mice, trap response in, 169
Miller, Richard B. The relative strengths of whitefish year-classes as affected by egg plantings and weather, 39–50
Mink, breeding history, 110
Mohler, Levi. Fall and winter habits of prairie chickens in southwest Nebraska, 9–23
Mole, prairie, control, 419
Moose, treatment with cobaltous chloride, 110
Morse, Marius A., see Stenlund, Milton H., 58
Mortality,
deer, mule, 289
fish, marine, 63
mallard, 32
Muenscher, W. C. Book review, 103
Murphy, Dean A., and Thomas S. Baskett. Bobwhite mobility in central Missouri, 498–510
Muskrat
movements, 138
survival, 484

Neess, John, see Young, Howard, 169
Nelson, Bernard A., see Stenlund, Milton H., 58
Nene, 1
Nestler, Ralph B., see Petrides, George A., 109
Notes and News, 232, 400, 518–519

Obituaries
Bishop, Louis B., 94
Bonnot, Paul, 214
Dozier, Herbert L., 379
Hoyt, J. Southgate, 214

Peterson, Randolph L. Book review, 218–219
Petrides, George A., and Ralph B. Nestler. Further notes on age determination in juvenile bobwhite quail, 109–110

Pheasant, breeding population, 409
bumblefoot in, 399
food of, 50
marking technique for, 223
populations, 429
sex ratios, 156
Populations, pheasant, 409, 429
weasel, 516
muskrats, 138
Porpoise, food habits, 396
Post, George. The effects of aldrin on birds, 492–497
Prairie chickens, fall and winter habits of, 9
Precipitation, relation of fox population to, 198

Quail,
(bobwhite)
age determination, 109
aids for studying, 316
effect of gunshot on, 54
mobility, 498
reproductive cycle, 91
California, in New Zealand, 460
Quimby, Don C. Book review, 217–218

Rabbits, cottontail, food habits, 180
Rabies, in beaver, 226
Raney, Edward C. Book reviews, 103, 104, 383
Range conditions, 121
in relation to deer mortality, 289
Rawson, D. S., and R. A. Ruttan. Pond fish studies in Saskatchewan, 283–288
Recent publications, 105–106; 222; 386; 518
Reeves, Maurice C. Mechanical aids useful in studying bobwhite quail, 316–319
Reviews, 95–105; 215–221; 380–386; 511–514
Richmond, Neil D. Fluctuations in gray fox population in Pennsylvania and their relationship to precipitation, 198–206
Roberts, R. E., see Baldini, James T., 91
Robinette, W. Leslie, *et al.* Winter mortality of mule deer in Utah in relation to range condition, 289–299
Ruttan, R. A., see Rawson, D. S., 283

Saila, Saul B. Some results of farm pond management studies in New York, 279–282
Salinger, Herbert E. A pheasant breeding population study on irrigated lands in southwest Idaho, 409–418
Schorger, A. W. Book review, 99
Schultz, Vincent. An application of aerial photography to land-use and cover mapping, 227–228
Sea-lion, food habits, 396
Seal, fur, food habits, 396
prey on albatross, 226
Sex determination, American coot, 191
Sex ratios
coot, American, 195
pheasants, 156
waterfowl, 391
Shanks, Charles E., and George C. Arthur. Muskrat movements and population dynamics in Missouri farm ponds and streams, 138–148
Smith, Arthur D. Digestibility of some native forages for mule deer, 309–312
Smith, J. Donald. The Hawaiian goose (Nene) restoration program, 1–9
Smith, Justin G. Food habits of mule deer in Utah, 148–155
also, see Robinette, W. L., 289
Squirrel, gray, crippling, 230
Stenlund, Milton, *et al.* White-tailed deer bag checks, Gegoka Management Unit, Superior National Forest, 58–63
Storer, Tracy I. Book review, 384–385
Stullken, Donald E., see Kirkpatrick, Charles M., 54
Swank, Wendell G. Trapping and marking of adult nesting doves, 87–90
Swanson, Carl V. Asparagus as emergency pheasant food, 50–53
Swanson, Gustav A. Book reviews, 105, 383–384
Review, 101
Swift, Lloyd W. Book review, 380–381
Swingle, H. S. Farm pond investigations in Alabama, 243–249

Techniques
aerial photography, 227, 320
bobwhite quail study, 316
doves, trapping & marking, 87
evaluation of mast index, 338
field cultural media kit, 225
fish population surveys, 393
increasing goose nesting, 425
marking, pheasants, 223
measuring age of beaver ponds, 69
mirror traps, 114
mourning dove autopsying, 108
pheasants, marking, 223
transmission spectra and crystallography in

law enforcement, 111
use of Italian rye grass in attracting waterfowl, 107
waterfowl capture, 438, 515
Thoreson, Nels A., see Brown, C. J. D., 275
Tigerman, Merle H. Observations of infiltration rates and sediment production on big game ranges, 224–225
Trapping, marten, 207
mice, 169
mirror traps, 114
quail, 316
Trichomoniasis, in doves, 164
Turkey, wild, 24

Uhler, Francis M., and Leonard M. Llewellyn. Fur productivity of submarginal farmland, 79–86
Uhlig, Hans G., and R. Wayne Bailey. Factors influencing the distribution and abundance of the wild turkey in West Virginia, 24–32
Uhlig, Hans G., and H. Lee Wilson. A method of evaluating an annual mast index, 338–343
Upland farming for waterfowl food supply, 442

Waterfowl
attracting, 107
capture, 438–515
food supply, 442
migratory, food of, 228
sex ratios, 391
Weasel control, 516
Westerskov, Kaj. Book review, 101
Whitefish, year classes, 39
Wildlife Society, The
Constitution and By-Laws, 116–120
Reports of officers and committees, 344–378
Wilke, Ford, and Karl W. Kenyon. Notes on the food of fur seal, sea-lion, and harbor porpoise, 396–397
Williams, Gordon R. The California quail in New Zealand, 460–483
Wilson, H. Lee, and Edward V. Berard. The use of aerial photographs and ecological principles in cover type mapping, 320–326
also, see Uhlig, Hans G., 338
Wingard, Robert G. Foods of some migratory waterfowl in Pennsylvania, 228–230
Winter, Kenneth B., and Ralph F. Honess. Bearded grains cause death of deer, 113–114
The use of transmission spectra and crystallography of hemoglobin in law enforcement, 111–113
Woodgerd, Wesley. Food habits of the golden eagle, 457–459

Yocom, Charles F. Techniques used to increase nesting of Canada geese, 425–428
Young, Howard, John Neess, and John T. Emlen, Jr. Heterogeneity of trap response in a population of house mice, 169–180

Zorichak, John L., see Stenlund, Milton H., 58